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ATTORNEY DOCKET NO. CONFIRMATION NO. APPLICATION NO. FILING DATE FIRST NAMED INVENTOR 6770 28944/36931 11/21/2000 Olivier Dugeon 09/717,735 **EXAMINER** 09/03/2004 8968 7590 GEORGE, KEITH M GARDNER CARTON & DOUGLAS LLP ATTN: PATENT DOCKET DEPT. ART UNIT PAPER NUMBER 191 N. WACKER DRIVE, SUITE 3700 CHICAGO, IL 60606

DATE MAILED: 09/03/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

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~~~		Application No.	Applicant(s)
•		09/717,735	DUGEON ET AL.
•	Office Action Summary	Examiner	Art Unit
		Keith M. George	2663
Period f	The MAILING DATE of this communication apports or Reply	pears on the cover sheet w	ith the correspondence address
THE - Extended - If th - If NO - Fail Any	MORTENED STATUTORY PERIOD FOR REPLIMAILING DATE OF THIS COMMUNICATION. Ensions of time may be available under the provisions of 37 CFR 1.1 r SIX (6) MONTHS from the mailing date of this communication. Experiod for reply specified above is less than thirty (30) days, a replication for reply is specified above, the maximum statutory period to ure to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing led patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a system of thir will apply and will expire SIX (6) MONs, cause the application to become Af	eply be timely filed  ty (30) days will be considered timely.  ITHS from the mailing date of this communication.  BANDONED (35 U.S.C. § 133).
Status			
1)⊠ 2a)□ 3)□	Responsive to communication(s) filed on <u>21 N</u> This action is <b>FINAL</b> . 2b) This Since this application is in condition for alloward closed in accordance with the practice under E	action is non-final. nce except for formal mat	
Disposit	ion of Claims		
5)[	Claim(s) <u>1-16</u> is/are pending in the application 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed.  Claim(s) <u>1-4,9-12 and 16</u> is/are rejected.  Claim(s) <u>5-8 and 13-15</u> is/are objected to.  Claim(s) are subject to restriction and/or	wn from consideration.	
Applicat	ion Papers		
10)⊠	The specification is objected to by the Examine The drawing(s) filed on <u>21 November 2000</u> is/a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Ex	re: a)⊠ accepted or b)□ drawing(s) be held in abeyar tion is required if the drawing	nce. See 37 CFR 1.85(a). (s) is objected to. See 37 CFR 1.121(d).
Priority	under 35 U.S.C. § 119		
12)⊠ a)	Acknowledgment is made of a claim for foreign  All b) Some * c) None of:  1. Certified copies of the priority document  2. Certified copies of the priority document  3. Copies of the certified copies of the priority application from the International Bureau  See the attached detailed Office action for a list	s have been received. s have been received in A rity documents have been u (PCT Rule 17.2(a)).	pplication No received in this National Stage
Attachmer	nt(s)		
1) Notice 2) Notice 3) Infor	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) er No(s)/Mail Date <u>2</u> .	Paper No(	Summary (PTO-413) s)/Mail Date nformal Patent Application (PTO-152) 

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#### **DETAILED ACTION**

# Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 1-4 and 10-12 are rejected under 35 U.S.C. 102(e) as being anticipated by Hayter, U.S. Patent 6,307,866, hereinafter Hayter.
- 3. Referring to claims 1 and 10, Hayter teaches a broadband telecommunications system including in figure 1 four data sources and five data sinks or destinations for data. Each of the data sources is connected to the ATM switch via transmission means which are representative of means for communication data in a form of ATM cells between the sources and the ATM switch (assigning, in advance, a set of virtual circuits of the TM network to each pair of access points). Within the ATM network shown in figure 1, each of the TM switches operates to allocate transmission bandwidth to data sources in accordance with a temporally fluctuation Available Bit Rate (ABR) bandwidth (without allocating transmission rate resources to the virtual circuits) (column 3, line 66 column 4, line 34). Hayter goes on to teach that amongst the ATM cells transmitted from each of the data sources are resource management cells. Each of the resource management cells comprises a set of data fields which are used to communicate control information from the data sources to the ATM switch and also from the ATM switch to the data

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sources. Within the fields of resource management cells, there are included, amongst others, the following data fields: A Current Cell Rate (CCR) data field representative of a maximum rate at which the data source is permitted to communicate cells to the ATM switch. An Initial Cell Rate (ICR) field which is representative of a maximum data rate which the source agrees it will not exceed when it becomes active from an idle state (establish a connection between a source and a destination containing a message requesting activation of the selected virtual circuit). For example, in the case where the data source changes from an idle state, where it is not transmitting data, to an active state, the data source may transmit at the initial cell rate (assigning a transmission rate resource to the selected virtual circuit) (column 4, line 61 - column 5, line 15).

- 4. Referring to claim 2, Hayter teaches the method described in reference to claim 1 above where it was clearly shown that the resource management cells included a current and initial cell rate. Hayter also teaches that the resource management cells include a minimum and explicit rate (message contains an indication of a transmission rate resource required for the connection (column 4, line 61 column 5, line 5).
  - Referring to claims 3 and 11, Hayter teaches the method described in reference to claim 2 above and also teaches that if the ATM switch which receives the cells via the transmission means has sufficient capacity to communicate the cells from the data source to the destination, it will allocate ABR bandwidth to the data source by setting the value of the ER field in the B-RM (backward resource management) (acknowledged on the virtual circuit by the second access point) cells to a corresponding cell rate (column 5, lines 16-21).

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6. Referring to claims 4 and 12, Hayter teaches the method described in reference to claim 1 above and also teaches that in the case where a data source changes from an idle state, where it is not transmitting data, to an active state (activation request), the data source may transmit at the initial cell rate. Therefore the RM cells sent at that time may have CCR=ICR (connection establishment request) (column 5, lines 12-16).

# Claim Rejections - 35 USC § 103

- 7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 8. Claims 9 and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hayter in view of Baudelot et al., U.S. Patent 6,104,714, hereinafter Baudelot. Hayter teaches the method described in reference to claims 1 and 10 above with the possible exception of allocating two separate ATM circuits for two opposite directions of communication. Baudelot teaches a method and apparatus for allowing communication in an isochronous traffic of asynchronous transfer mode (ATM) cells in a ring network including teaching that each station may be fitted with two separate adapters, each one being dedicated to one direction (column 16, lines 63-65). At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to utilize the two adapters, each dedicated to one direction taught by Baudelot in the method of Hayter. One of ordinary skill in the art would have been motivated to do this to provide a double

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direction ring topology which allows reliability and effectiveness (Baudelot, column 16, lines 65-66).

## Allowable Subject Matter

9. Claims 5-8 and 13-15 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

### Conclusion

- 10. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
  - a. Hawkinson, U.S. Patent 6,295,532, teaches a resource manager that handles the installation, de-installation, and modification of flows. This includes handling and generating resource management data to control the data rate fro flow controlled connections such as, for example, ATM ABR.
  - b. Pei et al., U.S. Patent 6,167,049, teaches techniques and devices for scheduling available bit rate traffic over an asynchronous transfer node link.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Keith M. George whose telephone number is 571-272-3099. The examiner can normally be reached on M-Th 7:00-4:30, alternate F 7:00-3:30.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chau T. Nguyen can be reached on 571-272-3126. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Keith M. George

2 September 2004

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SUPERVISORY PATENT EXAMINER

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